Revolutionary Research . . . Relevant Results

Funding Opportunities for Expeditionary and Undersea Medicine and Combat Casualty Care

10 February 2009

Terry Allard
Department Head
Warfighter Performance Science & Technology (S&T)
Office of Naval Research

Office of Naval Research Future Naval Capabilities

supports ~$500M / year

in advanced Technology Demonstrations

Current Medical S&T budget of ~$29M / year

will either GROW or SHRINK depending on your ideas and advocacy

ONR needs YOUR input to define Capability Gaps and requirements.

Capability Gaps,

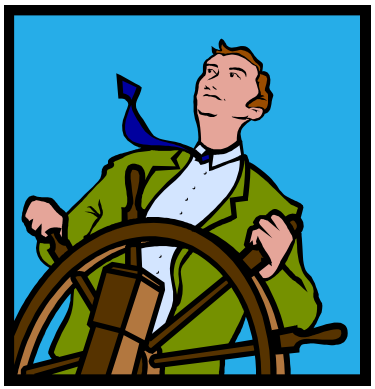
Customer Requirements

and *Warfighter Impact* will

Tip the balance of funding toward GROWTH

The Office of the Surgeon General of the Navy

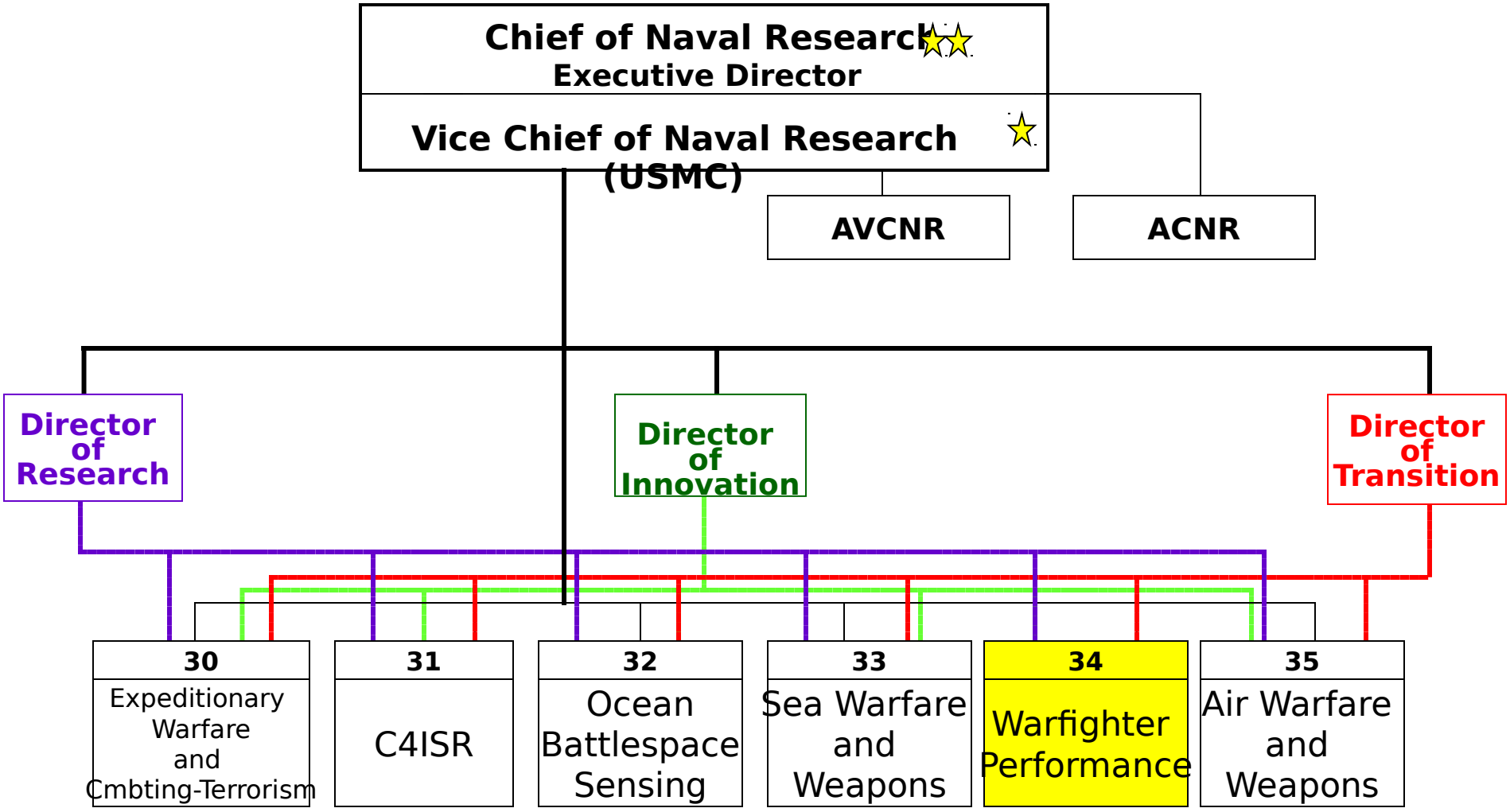
leads the definition of Navy and Marine Corps medical S&T requirements.



ONR Warfighter Performance S&T Department

leads the response to SG requirements by managing DoN S&T program elements.

ONR Organization Chart



Warfighter Performance Science & Technology Department

Revolutionary Research . . . Relevant Results

Department Head
Dr. Terry Allard, SES

Deputy
CAPT David Neri, PhD

NETC Liaison
Dr. Judy Wyne

Staffing	Number of Personnel
Military Active Duty	4
Civilian (ONR)	22
Civilian Vacancies	2
Detailees	2
On-Site Contractors	15
Total	45

Human & Bioengineered Systems
ONR 341 Division
Dr. John Tangney, SES

Warfighter Protection & Applications
ONR 342 Division
CDR Liz Montcalm-Smith, PhD

Research Protections
ONR 343 Division
Dr. Tim Singer

COMBAT CASUALTY CARE

UNDERSEA MEDICINE

***Future Naval Capabilities (FNCs)*:**

- **CAPABLE MANPOWER**
- **FORCE HEALTH PROTECTION**

ONR Warfighter Performance Vision

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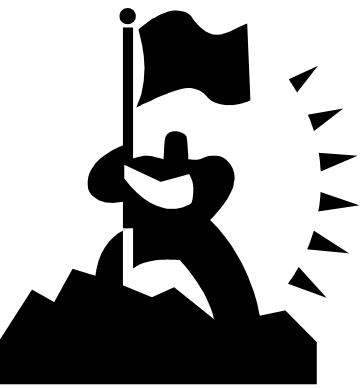

- **Sustain our Sailors and Marines at their peak effectiveness under all warfighting conditions**
- **Ensure the health and viability of our Warfighters afloat and ashore**
- **Enhance individual and team combat effectiveness by supplying the right information to the right people with the right skills at the right time in the right jobs**
- **Realize Human-System performance efficiencies to enhance performance and reduce costs**

Human Ingenuity, Determination, Accountability will not be replaced by technology or automation

Force Health Protection Future Naval Capability Integrated Product Team (IPT)

Revolutionary Research . . . Relevant Results

RDML William Roberts, *Co-Chair*
Director,
Medical Resources, Plans
and Policy Division
OPNAV N931

RADM Richard Jeffries, *Co-Chair*
The Medical Officer of the Marine Corps
TMO, USMC

Dr. Terry Allard
ONR Code 34

TBD
ongoing discussions
with ASN(RDA) Office

RDML Mike Stocks
Fleet Surgeon, FFC N02M

Achieving Stakeholder Consensus

Current Force Health Protection FNC Capability Gaps

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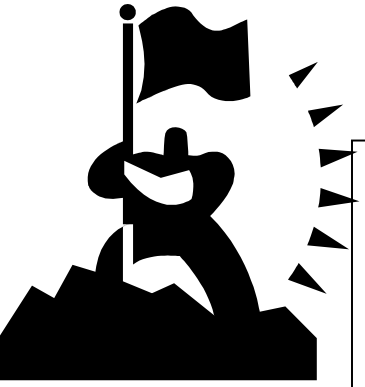
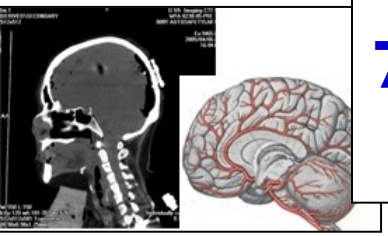


1. Wound Management
2. Mitigation and Prevention of Neuro-Trauma
3. Hemostatic Agents
4. Multifunctional Blood Substitutes and Extended-Life Blood Products
5. Maintaining Optimal Performance under Extreme Conditions
6. Casualty Prevention
7. Enhanced Biomaterials for Prosthetics and Wound Reconstruction



ONR Saving Lives / Improving Quality of Life

Revolutionary Research . . . Relevant Results

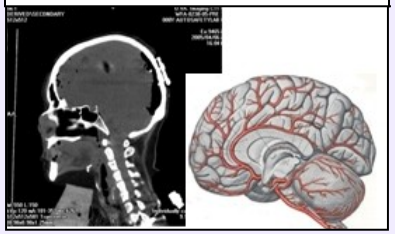
Health Risks in Extreme Conditions

FHP-FY08-01
Casualty Prevention

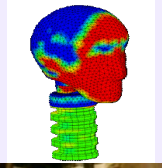
Heat Exposure Limits FY09

Treatment for Decompression Sickness FY13

Head, Neck and Back Trauma



FHP-FY08-01
Casualty Prevention



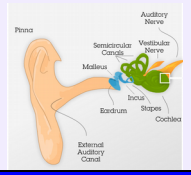
Improved PPE FY10

Models of Head and Spine Injury FY13

Post-Traumatic Stress Mitigation FY13

FHP-FY08-04
Warfighter Restoration

Repetitive Neurotrauma Mitigation FY13



Hearing Loss Prevention and Treatment /FY13

Battlefield Injury

FHP-FY08-02
Advanced Forward Care

Casualty Warming FY10

Closed Loop Ventilation FY11

Closed Loop Fluid Delivery FY13

Non-Pulmonary Oxygenation FY13

FHP-FY08-04
Warfighter Restoration

Wound Repair FY12

Wound Healing FY13

Medical Planning Tools

Blood Loss

FHP-FY08-03
Rapid Blood Treatment

Hemostatic Agents FY13

Pharmacologic Resuscitation FY13

Transfusion Safety FY13

Hemorrhagic Shock Survival FY13

FY09 Force Health Protection Products

Future Force Health Protection FNC Capability Gaps ??

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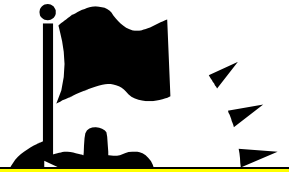


1. Wound Management
2. Mitigation and Prevention of Neuro-T
3. Hemostatic Agents

Future Capability Gaps Depend on Your Input

reme

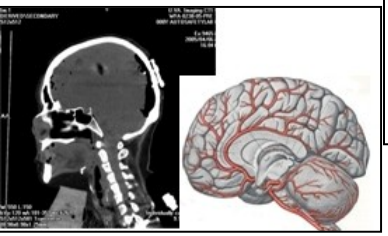
Conditions

6. Casualty Prevention
7. Enhanced Biomaterials for Prosthetics

Your Input will drive the future FHP Program

Corpsman ??

9. . . . ??
10. . . . ??



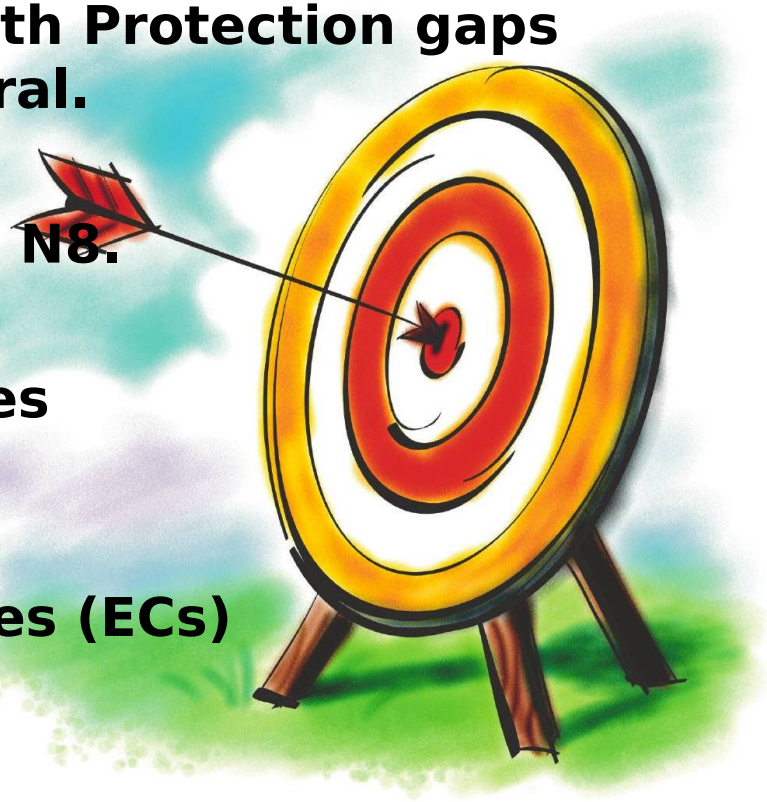
Future Naval Capability Process

1. VANGUARD will deliver Force Health Protection gaps to the Office of the Surgeon General.

2. SG will provide Capability Gaps to N8.

3. N8 conducts April/May Roundtables to refine Capability Gaps.

4. ONR proposes Enabling Capabilities (ECs) to fill Capability Gaps.



5. IPT and Technical Oversight Group (TOG) prioritize ECs.

6. ONR executes POM-12 Program and delivers products.

Future Medical S&T Investments

Your Input and Partnership are required to hit the target.